

4412(1) MAIDSTONE

1929.

ANNUAL REPORT

OF THE

Medical Officer of Health

FOR THE

BOROUGH OF MAIDSTONE.

CHARLES PYE OLIVER, M.D., Lond.,

Doctor in State Medicine, University of London;

Diplomate in Public Health, England; M.R.C.S., L.R.C.P.

Medical Officer to the Education Authority for the Borough of Maidstone.

Fellow of the Royal Institute of Public Health.

Maidstone :

W. P. DICKINSON & SON, LTD., PRINTERS AND STATIONERS, HIGH STREET.

1930.

1929.

ANNUAL REPORT

OF THE

Medical Officer of Health

FOR THE

BOROUGH OF MAIDSTONE.

CHARLES PYE OLIVER, M.D., Lond.,

Doctor in State Medicine, University of London ;

Diplomate in Public Health, England ; M.R.C.S., L.R.C.P.

Medical Officer to the Education Authority for the Borough of Maidstone.

Fellow of the Royal Institute of Public Health.

MAIDSTONE :

W. P. Dickinson & Son, Ltd., Printers and Stationers, High Street.

1930.



Digitized by the Internet Archive
in 2017 with funding from
Wellcome Library

<https://archive.org/details/b29780585>

BOROUGH OF MAIDSTONE.

HEALTH COMMITTEE. 1929-1930.

Chairman.

Alderman F. G. LAURENCE, J.P.

Members.

HIS WORSHIP THE MAYOR (Councillor T. ARMSTRONG, J.P.)

Alderman A. T. EPPS, J.P.

„ J. TOMLIN, J.P.

Councillor F. R. CONNOR,

Councillor W. H. MARTIN, J.P.

„ R. W. BEALE,

„ W. G. WELLS,

„ W. R. HYDE,

„ A. WOOD-MARTYN, D.S.O.

„ S. J. LYLE,

„ H. G. TYRWHITT-DRAKE,
J.P.

MATERNITY AND CHILD WELFARE COMMITTEE, 1929-1930.

Chairman.

Alderman F. G. LAURENCE, J.P.

Members.

HIS WORSHIP THE MAYOR (Councillor T. ARMSTRONG, J.P.)

Alderman A. T. EPPS, J.P.

„ J. TOMLIN, J.P.

Councillor F. R. CONNOR,

Councillor A. WOOD-MARTYN, D.S.O.,

„ R. W. BEALE,

„ H. G. TYRWHITT-DRAKE,

„ W. R. HYDE,

J.P.

„ S. J. LYLE,

Dr. GRACE GARRATT,

„ W. H. MARTIN, J.P. Mrs. B. W. HAYNES,

„ W. G. WELLS,

Mrs. H. J. RING.

BOROUGH OF MAIDSTONE.

REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE YEAR 1929.

TO THE URBAN DISTRICT COUNCIL.

MR. MAYOR AND GENTLEMEN,

In accordance with instructions received from the Ministry of Health, I herewith beg to bring to your consideration my Annual Report on the Health of the Borough of Maidstone.

The report as to contents and arrangement is based on the Memorandum issued by the Ministry of Health.

Following these instructions, details are omitted as to conditions which do not vary from year to year, and information asked for in certain years is curtailed.

I have the honour to be,

Mr. Mayor and Gentlemen,

Your obedient Servant,

C. PYE OLIVER, M.D.,

Doctor in State Medicine (Lond.).

THE GABLES,

MAIDSTONE.

April 30th, 1930.

GENERAL STATISTICS.

AREA.—4,008 acres.

POPULATION :—Census 1921—37,448.

Estimated 1929—For Birth Rate 40,730.
(June 30th) For Death Rate 40,550.

NUMBER OF INHABITED HOUSES.

1921 8172.

NUMBER OF FAMILIES OR SEPARATE OCCUPIERS.

1921 8,876.

RATEABLE VALUE.

£332,626.

SUM REPRESENTED BY A PENNY RATE.

£1,325.

EXTRACTS FROM VITAL STATISTICS OF THE YEAR.

LIVE BIRTHS

| | Totals. | Male. | Female. |
|--------------------|---------|-------|---------|
| Legitimate | 613 | 310 | 303 |
| Illegitimate | 34 | 16 | 18 |

STILLBIRTHS.

| | | | |
|--------------------|----|----|---|
| Legitimate | 18 | 11 | 7 |
| Illegitimate | 1 | — | 1 |

Birth Rate, 15·9

| | Totals. | Male. | Female. |
|--------------|---------|-------|---------|
| DEATHS... .. | 499 | 252 | 247 |

Death Rate, 12·6

Number of Women dying in or in consequence of Childbirth.—

| | |
|----------------------|---|
| From Sepsis | — |
| „ other causes | — |

Deaths of Infants under one year of age per 1,000 Births :—

| | | | |
|--------------------|-------|-------------|------|
| Legitimate..... | 46·37 | | |
| Illegitimate | 58·82 | Total | 49·5 |

| | |
|--|---|
| Deaths from Measles (all ages) | 1 |
| „ „ Whooping Cough | 9 |
| „ „ Diarrhoea (under 2 years of age) | 3 |

GENERAL PROVISION OF HEALTH SERVICES IN THE BOROUGH.

Arrangements have been made with the Kent County Nursing Association for the home nursing of cases of measles in young children, but it has not been necessary to call upon the Association for this service.

A maternity unit of two beds has recently been opened in connection with the West Kent General Hospital, where cases of normal labour are admitted through the medium of the Maternity and Child Welfare Centre. This block has been most useful in providing accommodation for such cases as have only limited space at home. The cases selected for admission are those where this is most acute.

During the year 46 cases were admitted, the average duration of stay being fourteen days.

There are also two beds retained here for complicated maternity cases. One of these was occupied during the year.

Maternal deaths occurring within the Borough are reported to the County Medical Officer of Health, who undertakes detailed enquiries into the causes of such deaths.

The severer illnesses of children up to five years of age where the home conditions are not satisfactory are received at the West Kent General Hospital. This is a voluntary agency. The Local Authority does not contribute directly to its funds.

PUBLIC HEALTH STAFF.

The Public Health Staff consists of the Medical Officer of Health (part-time officer), who is also the School Medical Officer, and a Chief Inspector, an additional Inspector, two Clerks and two Health Visitors. The Chief Inspector holds the Royal Sanitary Institute Certificate for meat and other foods.

Maternity and Child Welfare Centres.

This has now been established for 14 years, and meets at the Old Palace on Tuesday and Friday afternoons, when Dr. Grace Garratt attends for purpose of consultation.

Many voluntary helpers also attend to receive the mothers, weigh babies, sell clothing, dried milk, etc., at cost price.

There is another place for meeting at the extreme west of the town where a clinic is held on Thursday afternoons.

A centre has recently been opened in Mangeravet on the outskirts of the Borough.

This is a new estate and is at present occupied in the main by the industrial class.

In addition to these centres for children there is also an ante-natal clinic held at the Old Palace on Tuesday morning where Dr. Grace Garratt is also available for consultation.

There is close connection between the Child Welfare and Maternity centre, and the West Kent General and Ophthalmic and Aural Hospitals where cases requiring operation or in-patient treatment are received on a voluntary basis.

The centre is run by a Voluntary Committee containing Members of the Borough Council and has one Health Visitor lent by the Council and another provided by the funds of the centre.

The detail is subjoined:—

INFANT WELFARE FIGURES FOR 1929.

| | | | |
|---|-----|-----|-------|
| No. of first visits paid to the homes of Infants | ... | ... | 502 |
| " return " " " " | ... | ... | 2204 |
| " return " " Children | ... | ... | 5087 |
| " first visits paid to Ante-Natal Cases | ... | ... | 185 |
| " return " " " | ... | ... | 135 |
| " visits <i>re</i> removal, death of child, stillbirth, etc. | ... | ... | 269 |
| Attendances of Mothers at Old Palace | ... | ... | 3907 |
| " Infants " " | ... | ... | 2599 |
| " Children " " | ... | ... | 2266 |
| " Mothers at Barming | ... | ... | 739 |
| " Infants " " | ... | ... | 387 |
| " Children " " | ... | ... | 534 |
| " Mothers at Mangeravet | ... | ... | 482 |
| " Infants " " | ... | ... | 212 |
| " Children " " | ... | ... | 530 |
| Medical Inspections at Old Palace | ... | ... | 97 |
| " Barming | ... | ... | 25 |
| " Mangeravet | ... | ... | 22 |
| Ante-Natal Clinics held | ... | ... | 52 |
| Individual Mothers attending | ... | ... | 168 |
| TOTAL ATTENDANCES | ... | ... | 467 |
| Number of Health Talks given at Old Palace | ... | ... | 55 |
| " " " Barming | ... | ... | 23 |
| " " " Mangeravet | ... | ... | 23 |
| Infants and Children seen by Doctor at Old Palace | ... | ... | 2706 |
| " " " Barming | ... | ... | 491 |
| " " " Mangeravet | ... | ... | 392 |
| Average Attendance of Infants and Children at Old Palace | ... | ... | 48.17 |
| " Number seen by Doctor at Old Palace | ... | ... | 27.89 |
| " Attendance of Infants and Children at Barming | ... | ... | 19.19 |
| " Number seen by Doctor at Barming | ... | ... | 19.64 |
| " Attendance of Infants and Children at Mangeravet | ... | ... | 16.48 |
| " Number seen by Doctor at Mangeravet | ... | ... | 17.81 |

INFANT WELFARE FIGURES FOR 1929 (*continued*).

| | | | |
|--|-----|-----------|------|
| Individual Mothers attending at Old Palace | ... | ... | 368 |
| " Infants | " | " | 287 |
| " Children | " | " | 182 |
| " Mothers | " | Barming | 65 |
| " Infants | " | " | 46 |
| " Children | " | " | 39 |
| " Mothers | " | Mangravel | 51 |
| " Infants | " | " | 32 |
| " Children | " | " | 53 |
| Pre-School Clinic Attendances (3-5 years of age) | ... | ... | 118 |
| Individual Children | ... | ... | 68 |
| Average Attendance | ... | ... | 9.83 |
| Cooking Classes held | ... | ... | 12 |
| Attendance of Mothers | ... | ... | 120 |
| Individual Mothers | ... | ... | 17 |
| Sewing Classes held | ... | ... | 17 |
| Attendance of Mothers | ... | ... | 132 |
| Individual Mother | ... | ... | 14 |

OPHTHALMIA NEONATORUM.

| | CASES. | | | | | |
|-----------------------|-----------|----------|--------------|--------------------|------------------|------------------|
| | Notified. | Treated. | | Vision Unimpaired. | Vision Impaired. | Total Blindness. |
| | | At Home. | In Hospital. | | | |
| Ophthalmia Neonatorum | — | — | — | — | — | — |

**PREMISES AND OCCUPATIONS
CONTROLLED BY BYE-LAWS.**

Bye-laws have been adopted with respect to the following :—

Tents, vans, sheds, etc., for human habitation (July, 1903).

Houses-let-in-lodgings (July, 1903).

New bye-laws with respect to the better accommodation of persons engaged in hop-picking and picking of fruit and vegetables (September, 1926).

Bye-laws and regulations with regard to sanitary conveniences :—

Common-lodging-houses.

Offensive trades.—Blood boiler, blood drier, bone boiler, fellmonger, tanner, leather dresser, soap boiler, tallow melter, fat melter, tripe boiler, glue maker, size maker, gut scraper.

New Streets and buildings.

New bye-laws with respect to slaughter-houses have been adopted, in which are incorporated sections dealing with the humane slaughtering of animals (September, 1924).

Powers have been taken under the Maidstone Corporation Act, 1923, for the better supervision of markets and slaughter-houses ; for courts to be flagged and drained ; for the prevention of obstructive buildings ; to prevent spread of infectious disease amongst children in schools and in common-lodging-houses ; for regulating manufacture and sale of ice cream, etc. ; for cleansing of verminous persons and premises, etc.

WATER REPORT.

Samples of each of the water supplies have been analysed week by week and found to be satisfactory. These samples are collected at the source, and as near the point of distribution in the houses as possible on alternate weeks.

The analyses in detail, numbering 156, are set forth in the appendix, while the respective averages for the four supplies are shown in the following table :—

| Average results during the year 1929. | BOARLEY. | COSSINGTON. | FORSTAL. | COSSINGTON AND FORSTAL (MIXED). |
|--|----------|-------------|----------|---------------------------------------|
| Total Solids... | 35.4 | 31.9 | 56.7 | 16.7 |
| Chlorine .. | 2.4 | 2.2 | 3.9 | 3.2 |
| Nitrogen as Nitrates .. | 0.5 | 0.3 | 0.3 | 0.3 |
| Free Ammonia .. | 0.0 | 0.0 | 0.0 | 0.0 |
| Albuminoid Ammonia .. | 0.0 | 0.0 | 0.0 | 0.0 |
| Hardness. Total .. | 22.9 | 21.1 | 35.8 | 29.6 |
| .. Perm. .. | 5.8 | 5.1 | 13.0 | 9.3 |
| Colour and appearance in a 2-foot tube .. | clear | clear | clear | clear |
| Smell .. | none | none | none | none |
| Phosphoric Acid .. | none | none | none | none |

1133 All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

The gathering grounds at Boarley and Cossington, together with the reservoirs at Boarley, Detling, and Barming, continue to be patrolled daily by an employee of the Waterworks Company. These, together with the new reservoir at Loose and the pumping station at Forstal, have been inspected by myself in company with Professor John Eyre, Dr. Greenwood, the County Medical Officer of Health, and Mr. Harden, the Engineer.

The grounds have invariably been found in a satisfactory condition. The reservoirs are well protected by substantial fences. The pumping station at Forstal, with the bore hole, is also in a satisfactory condition.

Each of the specimens from the various supplies has been bacterially examined under the supervision of Professor John Eyre, whose last report on samples of water collected half-yearly, dated January 27th, 1930, indicate "that the Maidstone water as a whole still maintains a high degree of excellence as a potable supply. The water from the Loose Reservoir appears to be undergoing progressive improvement."

FACTORIES AND WORKSHOPS.

173 inspections have been made and 9 written notices issued.

The number of defects found were 9 and they were all remedied.

| | |
|-----------------|-----|
| Factories..... | 118 |
| Workshops | 122 |
| Workplaces ... | 10 |
| Bakehouses..... | 25 |

PREMISES AND OCCUPATIONS WHICH CAN BE CONTROLLED BY BYE-LAWS OR REGULATIONS.

The following premises are controlled by Bye-Laws and Regulations :—

- 6 Common Lodging Houses.
- 20 Slaughter Houses.
- 4 Houses let in Lodgings.
- 9 Cowsheds.
- 36 Dairies and Milkshops.
- 1 By-Products Factory, comprising bone boiler, fat melter and tallow melter.

RAG FLOCK ACTS, 1911 & 1928.

There are four premises on which rag flock is used and inspections have been made.

Factories, Workshops and Workplaces.

1.—INSPECTION OF FACTORIES, WORKSHOPS AND WORKPLACES, Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

| Premises. (1) | Number of | | |
|---|---------------------|----------------------------|----------------------|
| | Inspections. (2) | Written Notices. (3) | Prosecutions. (4) |
| Factories..... (Including Factory Laundries). | 50 | 1 | — |
| Workshops..... (Including Workshop Laundries). | 56 | 8 | — |
| Workplaces..... (Other than Outworkers' premises). | 3 | — | — |
| TOTAL..... | 109 | 9 | — |

2.—DEFECTS FOUND IN FACTORIES, WORKSHOPS AND WORKPLACES.

| PARTICULARS. (1) | Number of Defects. | | | Number of Prosecu- tions. (5) |
|---|--------------------|------------------|--|---|
| | Found. (2) | Remedied. (3) | Referred to H.M. Inspector. (4) | |
| Nuisances under the Public Health Acts : * | | | | |
| Want of Cleanliness..... | 6 | 6 | — | — |
| Want of Ventilation..... | 1 | 1 | — | — |
| Overcrowding..... | — | — | — | — |
| Want of Drainage of Floors..... | — | — | — | — |
| Other Nuisances..... | — | — | — | — |
| Sanitary Accommo- dation. { Insufficient..... | 2 | 2 | — | — |
| { Unsuitable or Defective .. | — | — | — | — |
| { Not Separate for Sexes ... | — | — | — | — |
| Offences under the Factory and Workshops Acts :— | | | | |
| Illegal Occupation of Underground Bake- house (s. 101)..... | — | — | — | — |
| Other Offences..... (Excluding Offences relating to out- work and Offences under the Sections mentioned in the Schedule to the Ministry of Health (Factories and Workshops Transfer of Powers Order, 1921.) | — | — | — | — |
| TOTAL..... | 9 | 9 | — | — |

* Including those specified in sections 2, 3, 7 and 8 of the Factory and Workshops Act, 1901, as remediable under the Public Health Acts.

Sanitary Inspection of the Area

TABLE OF WORK OF SANITARY INSPECTORS.

| | |
|---|---------|
| Accumulations of manure and other refuse removed | 21 |
| Bakehouse inspections..... | 61 |
| Chimneys repaired | 4 |
| Cement sinks removed and glazed sinks provided | 28 |
| Cooking Stoves renewed or repaired | 21 |
| Cowsheds, Dairies and Milkshops inspections..... | 55 |
| Common Lodging Housing inspections..... | 36 |
| Coppers repaired | 21 |
| Drains cleaned on complaint or by flushing staff | 4126 |
| " tested with smoke | 39 |
| " " water..... | 32 |
| " inspection chambers provided | 23 |
| " " " airtight covers provided | 25 |
| " reconstructed..... | 21 |
| " repaired | 29 |
| " stoneware gullies provided | 22 |
| " stoneware drainage laid | 915 ft. |
| " iron " " | — |
| " trapped from sewer and ventilated | 6 |
| Dustbins provided..... | 145 |
| Factory, workshop, workplace and outworkers' premises inspected | 109 |
| Fresh air inlets provided..... | 11 |
| Houses, cement floors provided in cellars..... | 1 |
| " floors to living-rooms provided or repaired | 41 |
| " shooting or guttering provided or repaired | 64 |
| " roofs repaired | 108 |
| " No. of rooms where dirty or loose paper has been removed and walls and ceilings repaired and dis-tempered | 217 |
| " walls made dry by insertion of damp course or other method..... | 16 |
| Inquiries into cases of infectious disease | 207 |
| Inspection of houses on complaint or otherwise | 592 |
| " " under Housing Act, 1925..... | 77 |
| " of work in progress | 763 |
| Miscellaneous defects remedied | 71 |
| Outbuildings and Washhouses repaired or rebuilt | 8 |
| Overcrowding abated | 61 |
| Poultry or animals removed | 7 |
| Re-inspections of houses | 1201 |
| Schools inspected | 11 |
| Sink or other waste pipes removed, disconnected or trapped | 40 |
| Sinks, new channels provided or repaired | 30 |
| Slaughterhouse inspections..... | 870 |
| Stairs repaired | 27 |
| Strainers provided to gullies | 17 |
| Tippers repaired, renewed or cleansed | 19 |
| Walls and Ceilings repaired | 169 |
| W.C.'s, additional, provided | 4 |
| " flushing apparatus provided or repaired | 320 |
| " new pans and traps provided | 61 |
| " structural defects remedied | 22 |
| Window sashes hung so as to open full size and cords renewed | 52 |
| " sills renewed | 10 |
| Yard pavement provided or repaired in connection with dwellings | 23 |
| Preliminary Notices served | 236 |
| Statutory Notices served..... | 329 |

HOUSING.

| | |
|---|-----|
| Number of new houses erected during the year :— | |
| (a) Total | 318 |
| (b) With State assistance under the Housing Acts :— | |
| (i.) By the Local Authority | 171 |
| (ii.) By other bodies or persons | 100 |

UNFIT DWELLING HOUSES.**I.—Inspection.**

| | |
|--|-----|
| (1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts) ... | 669 |
| (2) Number of dwelling-houses which were inspected and recorded under the Housing Consolidated Regulations, 1925 | 77 |
| (3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation... .. | Nil |
| (4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation ... | 565 |

II.—Remedy of Defects without Service of formal Notices.

| | |
|--|-----|
| Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers | 209 |
|--|-----|

III.—Action under Statutory Powers.**A.—PROCEEDINGS UNDER SECTION 3 OF THE HOUSING ACT, 1925.**

| | |
|--|-----|
| (1) Number of dwelling-houses in respect of which notices were served requiring repairs | 3 |
| (2) Number of dwelling-houses which were rendered fit after service of formal notices :— | |
| (a) by owners | 2 |
| (b) by Local Authority in default of owners ... | 1 |
| (3) Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close ... | Nil |

B.—PROCEEDINGS UNDER PUBLIC HEALTH ACTS.

| | |
|---|-----|
| (1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied | 326 |
| (2) Number of dwelling-houses in which defects were remedied after service of formal notices :— | |
| (a) by owners | 285 |
| (b) by Local Authority in default of owners ... | 2 |

HOUSING (continued).

| C.- PROCEEDINGS UNDER SECTION 11, 14 AND 15 OF THE HOUSING ACT, 1925. | |
|---|-----|
| (1) Number of representations made with a view to the making of Closing Orders | Nil |
| (2) Number of dwelling-houses in respect of which Closing Orders were made | Nil |
| (3) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit | Nil |
| (4) Number of dwelling-houses in respect of which Demolition Orders were made | Nil |
| (5) Number of dwelling-houses demolished in pursuance of Demolition Orders | Nil |

SCAVENGING.

The erection of an Incinerator or some other equally suitable means for the disposal of house refuse is being considered by my Authority. In the meantime they have decided to adopt the "Bradford" system of tipping for six months trial.

DESTRUCTION OF UNSOUND FOOD.

23,316 lbs. of different kinds of food have been destroyed, which includes 315 lbs. of fish, 607 lbs. of chilled beef, 9 cows, 276 pigs.

SLAUGHTERHOUSES.

There are 16 Registered and 4 Licensed in the Borough. They are inspected regularly for cleanliness, etc., and also when slaughtering is in hand for inspection of meat. 870 inspections were made in 1929.

DISINFECTION.

The disinfection of houses where infectious diseases occur is regularly carried out and articles of bedding and clothing are removed to the Sanatorium, where they are put through a steam disinfecter. Rooms are disinfected after the death or removal of cases of Tuberculosis.

During 1929, 9,406 articles and 259 rooms were disinfected.

DAIRIES, COWSHEDS AND MILKSHOPS ORDER.

These premises are regularly inspected, and kept in a sanitary condition : 55 inspections were made in 1929.

MILK ; and CREAM not sold as PRESERVED CREAM.

| | (a) Number of samples examined for the presence of a preservative. | (b) Number in which a preservative was reported to be present. |
|-------------|---|---|
| Milk | 51 | — |
| Cream | — | — |

SALE OF FOOD AND DRUGS ACT.

During the year 84 samples were taken, comprised as follows :—

| Article. | Number. | Number Genuine. | Article. | Number. | Number Genuine. |
|--------------------|---------|--------------------|-------------------|---------|--------------------|
| Milk | 51 | 45 | Raisin Wine .. | 2 | 2 |
| Scotch Whisky ... | 3 | 3 | Gelatine | 1 | — |
| Butter | 1 | 1 | Certified Milk... | 10 | 9 |
| Margarine | 2 | 1 | Sterilized Milk | 2 | 2 |
| Beef Sausages..... | 1 | 1 | Preserved | | |
| Gin | 1 | 1 | Cherries | 1 | 1 |
| Pork Sausages ... | 1 | 1 | Rum | 1 | 1 |
| Egg Powder | 2 | 2 | | | |
| Strawberry Jam... | 1 | 1 | | — | — |
| Coffee Extract ... | 2 | 2 | | 84 | 75 |
| Pepper | 2 | 2 | | — | — |

PROSECUTIONS.

MILK SAMPLES.

| | |
|--|------------------|
| (1) 9 % deficient in fat or cream..... | Vendor fined £2. |
| (2) 28 % " " " " | " £3. |
| (3) 12 % " " " " | " £1. |

MILK AND DAIRIES ORDER, 1926.

| | |
|--|--------------------------------|
| (1) Filling a milk bottle in the street .. | Dismissed on payment of costs. |
| (2) " " " " .. | Fined 5s. |
| (3) " " " " .. | Fined 10s. |
| (4) For aiding and abetting in case (3) .. | Fined 15s. |
| (5) Filling a milk bottle in the street .. | Dismissed on payment of costs. |
| (6) " " " " .. | Fined 5s. |
| (7) Filling milk bottles in the street ... | Fined £1. |

SECTION 94, PUBLIC HEALTH ACT, 1875.

| | |
|---|---|
| (1) Neglect to abate nuisance in dwelling-house | Ordered to carry out work within 28 days. |
| (2) " " " " .. | Ordered to carry out work within 28 days. |

AMBULANCE FACILITIES.

Infectious cases are removed in a motor ambulance provided by the Borough.

Non-infectious and accident cases are removed by two motor ambulances, in a very efficient manner and on a voluntary basis, by the Maidstone Division of the St. John Ambulance Brigade.

Infectious Diseases.

The notifications of infectious diseases made during the year were as follows :—

| DISEASE. | Total Cases Notified. | Cases Admitted to Hospital. | Total Deaths. |
|---------------------------|-----------------------|-----------------------------|---------------|
| Scarlet Fever | 71 | 62 | - |
| Diphtheria | 63 | 62 | 3 |
| Puerperal Fever... .. | 1 | 1 | — |
| Puerperal Pyrexia | 1 | — | — |
| Pneumonia | 56 | 14 | 11 |
| Erysipelas... .. | 23 | — | 2 |
| Dysentery | 8 | — | — |
| Cerebro-Spinal Meningitis | 1 | 1 | — |
| Total | 224 | 141 | 16 |

Tuberculosis.

The number of deaths from all forms of Tuberculosis which had been notified was 32. The number which had not been notified was 11.

The ratio of non-notified Tuberculosis deaths to total number of Tuberculosis deaths was thus 34 to 1.

Public Health (Prevention of Tuberculosis)

Regulations, 1925.

No action was necessary in regard to any employees in the milk trade.

Public Health Act, 1925, Section 62.

No action as to compulsory removal of tuberculosis patients to hospital was taken during the year.

| Age Periods. | New Cases. | | | | Deaths. | | | |
|----------------|------------|----|----------------|----|------------|----|----------------|----|
| | Pulmonary. | | Non-Pulmonary. | | Pulmonary. | | Non-Pulmonary. | |
| | M. | F. | M. | F. | M. | F. | M. | F. |
| 0 | — | 1 | — | — | — | — | — | — |
| 1 | — | — | 1 | — | — | — | 1 | 1 |
| 5 | 3 | 3 | 1 | — | 1 | — | 1 | — |
| 10 | — | 1 | — | 1 | — | — | — | — |
| 15 | 2 | 5 | — | — | — | 2 | — | 1 |
| 20 | 5 | 6 | — | — | 1 | 2 | — | — |
| 25 | 5 | 5 | — | 1 | 5 | 5 | 1 | 1 |
| 35 | 9 | 2 | — | 1 | 3 | 2 | — | — |
| 45 | 3 | 3 | — | — | 5 | 2 | — | 2 |
| 55 | — | 1 | — | — | 2 | — | — | — |
| 65 and upwards | — | 1 | — | — | 1 | 2 | — | — |
| Totals ... | 27 | 28 | 2 | 3 | 18 | 15 | 3 | 5 |

Analysis of Cases of Notifiable Diseases under Age Groups.

| Disease. | Under 1 | 1 | 2 | 3 | 4 | 5 | 10 | 15 | 20 | 35 | 45 | 65 | Total |
|---------------------------|---------|---|---|----|----|----|----|----|----|----|----|----|-------|
| Scarlet Fever... | — | 1 | 1 | 4 | 5 | 31 | 10 | 3 | 13 | 2 | 1 | — | 71 |
| Diphtheria | 1 | 1 | 1 | 6 | 4 | 32 | 11 | 1 | 4 | — | — | — | 63 |
| Puerperal Fever | — | — | — | — | — | — | — | — | 1 | — | — | — | 1 |
| Puerperal Pyrexia | — | — | — | — | — | — | — | — | 1 | — | — | — | 1 |
| Pneumonia | 1 | 1 | 5 | 3 | 3 | 2 | 2 | 5 | 8 | 9 | 13 | 4 | 56 |
| Erysipelas | — | — | — | — | — | — | 1 | — | 2 | 5 | 7 | 8 | 23 |
| Dysentery | — | — | — | — | — | — | 2 | 1 | — | 1 | 2 | 2 | 8 |
| Cerebro Spinal Meningitis | — | — | — | — | — | — | — | — | 1 | — | — | — | 1 |
| Totals..... | 2 | 3 | 7 | 13 | 12 | 65 | 26 | 10 | 30 | 17 | 21 | 15 | 224 |

Analysis of Deaths of Notifiable Diseases under Age Groups.

| Disease. | Under 1 | 1 | 2 | 3 | 4 | 5 | 10 | 15 | 15-20 | 20 | 35 | 35-45 | 45-65 | 65 and over | Total. |
|---------------------------|---------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-------|-------|-------------|--------|
| Scarlet Fever ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Diphtheria | ... | ... | ... | 1 | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 3 |
| Puerperal Fever ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Puerperal Pyrexia | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Pneumonia | 4 | 6 | 1 | 1 | 2 | 1 | ... | 1 | 2 | 3 | 11 | 9 | 41 | | |
| Erysipelas | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | 2 | | |
| Dysentery | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | |
| Cerebro-Spinal Meningitis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | | |
| Totals..... | 4 | 6 | 1 | 2 | 3 | 2 | ... | 1 | 2 | 3 | 12 | 10 | 46 | | |

LABORATORY WORK.

Bacterial aids to diagnosis have been utilised to an increasing extent year by year. The County Laboratory is of great value to not only the Public Health Department of the Borough, but also to the private medical practitioner as is evidenced by the number of specimens examined as set forth in the subjoined table :—

| Disease for which examination was made. | Results. | | Total. |
|---|-----------|-----------|--------|
| | Positive. | Negative. | |
| Diphtheria | 108 | 1172 | 1280 |
| Enteric Fever | 1 | 29 | 30 |
| Pulmonary Tuberculosis..... | 46 | 150 | 196 |
| Various | 16 | 17 | 33 |
| | 171 | 1368 | 1539 |

A supply of Diphtheria Antitoxin is available for use by medical practitioners, and can be obtained free of charge from the Police Station or from the Sanatorium, Fant Lane, or Health Department, Tonbridge Road, either by night or day.

TABLE I.

| Causes of Death. | | | | | | | M. | F. |
|------------------|---|-----|-----|-----|-----|-----|-----|-----|
| All Causes | .. | ... | ... | .. | .. | ... | 252 | 247 |
| 1 | Enteric Fever | .. | ... | ... | ... | ... | ... | ... |
| 2 | Small-pox | . | . | ... | ... | ... | .. | ... |
| 3 | Measles | ... | ... | ... | ... | ... | 1 | ... |
| 4 | Scarlet Fever | .. | ... | ... | ... | ... | ... | .. |
| 5 | Whooping Cough | ... | ... | ... | ... | ... | 6 | 3 |
| 6 | Diphtheria | ... | ... | ... | ... | .. | 2 | 1 |
| 7 | Influenza | ... | ... | ... | ... | ... | 5 | 5 |
| 8 | Encephalitis Lethargica | .. | ... | ... | ... | ... | ... | ... |
| 9 | Meningococcal Meningitis | ... | ... | ... | ... | ... | ... | .. |
| 10 | Tuberculosis of Respiratory System | ... | ... | ... | ... | ... | 18 | 15 |
| 11 | Other Tuberculous Diseases | ... | ... | ... | .. | ... | 3 | 5 |
| 12 | Cancer, Malignant Disease | ... | ... | ... | ... | .. | 35 | 32 |
| 13 | Rheumatic Fever | ... | ... | .. | ... | ... | 1 | ... |
| 14 | Diabetes | ... | ... | .. | ... | ... | 2 | 1 |
| 15 | Cerebral Hæmorrhage, &c. | ... | ... | ... | ... | ... | 13 | 12 |
| 16 | Heart Disease | ... | ... | ... | ... | .. | 44 | 67 |
| 17 | Arterio-sclerosis | ... | ... | ... | ... | ... | 12 | 6 |
| 18 | Bronchitis | ... | ... | ... | ... | ... | 14 | 18 |
| 19 | Pneumonia (all forms) | ... | ... | ... | ... | ... | 26 | 15 |
| 20 | Other Respiratory Diseases | ... | ... | ... | ... | ... | 3 | 3 |
| 21 | Ulcer of Stomach or Duodenum | .. | .. | ... | ... | ... | 3 | 1 |
| 22 | Diarrhœa, &c. (under 2 years) | .. | ... | ... | ... | ... | 1 | 2 |
| 23 | Appendicitis and Typhlitis | ... | ... | ... | ... | .. | ... | ... |
| 24 | Cirrhosis of Liver | ... | .. | ... | .. | ... | 3 | 1 |
| 25 | Acute and Chronic Nephritis | ... | ... | ... | ... | ... | 8 | 5 |
| 26 | Puerperal Sepsis | .. | ... | ... | ... | ... | ... | ... |
| 27 | Other Accidents and Diseases of Pregnancy and Parturition | ... | ... | ... | ... | ... | ... | ... |
| 28 | Congenital Debility and Malformation, Premature Birth | ... | ... | ... | ... | .. | 9 | 5 |
| 29 | Suicide | ... | ... | ... | ... | .. | 6 | 4 |
| 30 | Other Deaths from Violence | .. | ... | ... | ... | ... | ... | 7 |
| 31 | Other defined Diseases | .. | ... | ... | ... | ... | 28 | 39 |
| 32 | Causes ill-defined or unknown | ... | ... | .. | ... | .. | 1 | ... |

TABLE II.

INFANT MORTALITY, 1929. NETT DEATHS FROM STATED CAUSES AT VARIOUS
AGES UNDER 1 YEAR OF AGE.

| Causes of Death. | | | | Under 1 week | 1-2 weeks | 2-3 weeks | 3-4 weeks | Total under 4 weeks | 4 weeks and under 3 months | 3 months and under 6 months | 6 months and under 9 months | 9 months and under 12 months | Total Deaths under 1 year |
|--------------------------------|-----|-----|-----|------------------------|-----------|-----------|-----------|---------------------|----------------------------|-----------------------------|-----------------------------|------------------------------|---------------------------|
| All Causes | ... | ... | ... | | | | | | | | | | |
| Small-pox | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Chicken-pox | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Measles | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Scarlet Fever | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Whooping Cough | ... | ... | ... | — | — | — | — | — | — | — | 2 | — | 2 |
| Diphtheria and Croup | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Erysipelas | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Tubercular Meningitis | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Abdominal Tuberculosis | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Other Tuberculous Diseases | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Meningitis (not Tuberculous) | ... | ... | ... | — | — | — | — | — | — | 1 | — | 1 | 2 |
| Convulsions | ... | ... | ... | — | — | 1 | — | 1 | — | — | 1 | — | 2 |
| Laryngitis | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Bronchitis | ... | ... | ... | — | 1 | — | — | 1 | 1 | — | — | — | 2 |
| Pneumonia (all forms) | ... | ... | ... | — | — | — | — | — | 1 | 1 | 2 | 2 | 6 |
| Diarrhoea | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Enteritis | ... | ... | ... | — | — | — | — | — | — | 1 | 1 | 1 | 3 |
| Gastritis | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Syphilis | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Rickets | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Suffocation, overlying | ... | ... | ... | — | 1 | — | — | 1 | — | — | — | — | 1 |
| Injury at birth | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Atelectasis | ... | ... | ... | 1 | — | — | — | 1 | — | — | — | — | 1 |
| Congenital Malformations | ... | ... | ... | — | — | — | — | — | — | — | — | — | — |
| Premature birth | ... | ... | ... | 5 | — | — | — | 5 | — | — | — | — | 5 |
| Atrophy, Debility and Marasmus | ... | ... | ... | 2 | — | 1 | 1 | 4 | 1 | — | — | — | 5 |
| Other Causes | ... | ... | ... | 1 | — | — | — | 1 | — | — | 1 | 1 | 3 |
| Totals | ... | ... | ... | 9 | 2 | 2 | 1 | 14 | 3 | 3 | 7 | 5 | 32 |
| Nett Births in the year | | | | { Legitimate | ... | ... | ... | ... | ... | ... | 613 | | |
| | | | | { Illegitimate | ... | ... | ... | ... | ... | ... | 34 | | |
| Nett Deaths in the year | | | | { Legitimate Infants | ... | ... | ... | ... | ... | ... | 39 | | |
| | | | | { Illegitimate Infants | ... | ... | ... | ... | ... | ... | 2 | | |

TABLE III.

ANNUAL STATISTICS RELATING TO MATERNITY HOME FOR YEAR 1929.

Name of Institution—West Kent General Hospital (Maternity Ward).

Number of Beds ... 2.

| | |
|--|--|
| (1) Number of cases in home on 1st January, 1929 | 2 |
| (2) Number of cases admitted during 1929 | 16 |
| (3) Average duration of stay | 14 days. |
| (4) Number of cases delivered by | |
| (a) Midwives | 45 |
| (b) Doctors | 1 |
| (5) Number of cases in which medical assistance was sought by the midwife with reasons for requiring assistance | Medical Officer visits daily and sees all patients before, during and after labour. |
| (a) Ante-natal | |
| (b) During labour | |
| (c) After labour (state separately the number of ruptured perineums which required suture). | 14 |
| (d) For infant. | Seen daily. |
| (6) Number of cases notified as | |
| (a) Puerperal Fever | Nil. |
| (b) ,, Pyrexia | Nil. |
| (i.e. rise of temperature to 100.4° F. for 24 hours or its recurrence within that period) with result of treatment in each case. | |
| (7) Number of cases of Pemphigus Neonatorum. | Nil. |
| (8) Number of cases notified as Ophthalmia Neonatorum with result of treatment in each case. | Nil. |
| (9) Number of cases of "inflammation of the eyes," however slight. | 4 |
| (10) Number of Infants not entirely breast-fed while in the Institution, with reasons why they were not breast-fed. | 2 Entirely bottle fed. 1 Mother previous amputation both breasts. 1 Mother twins and insufficient supply. 7 Supplementary feeds on account of failure to gain weight. |
| (11) Number of Maternal deaths with causes. | Nil. |
| (12) Number of Fœtal Deaths | |
| (a) Stillborn, | Nil. |
| (b) within 10 days of birth | Nil. |
| State the causes, and the results of post mortem examination if obtainable. | |

TABLE IV.—Boarley Water Supply.

| Source of Sample. | Date of Collections. | Total Solids. | Chlorine. | Nitrogen as Nitrates. | Ammonia. | | Hardness. | | Colour and appearance in 2-ft. tube. | Smell. | Phosphoric Acid. |
|------------------------|----------------------|---------------|-----------|-----------------------|----------|-------------|-----------|-------|--------------------------------------|--------|------------------|
| | | | | | Free. | Albuminoid. | Total. | Perm. | | | |
| 1929. | | | | | | | | | | | |
| Gathering Ground | Jan. 7 | 355 | 24 | 0.4 | 0.0 | 0.0 | 236 | 5.8 | clear | none | none |
| 26, Market Street .. | " 14 | 355 | 24 | 0.4 | 0.0 | 0.0 | 236 | 5.8 | " | " | " |
| Gathering Ground | " 21 | 350 | 23 | 0.5 | 0.0 | 0.0 | 234 | 5.8 | " | " | " |
| 10, Albert Street.... | " 28 | 342 | 23 | 0.4 | 0.0 | 0.0 | 232 | 5.8 | " | " | " |
| Gathering Ground | Feb. 4 | 335 | 23 | 0.7 | 0.0 | 0.0 | 230 | 5.8 | " | " | " |
| 14, Waterside | " 11 | 340 | 23 | 0.6 | 0.0 | 0.0 | 232 | 5.8 | " | " | " |
| Gathering Ground | " 18 | 345 | 23 | 0.7 | 0.0 | 0.0 | 231 | 5.8 | " | " | " |
| 23, Medway Street.. | " 25 | 350 | 23 | 0.4 | 0.0 | 0.0 | 232 | 5.4 | " | " | " |
| Gathering Ground | Mar. 4 | 360 | 23 | 0.4 | 0.0 | 0.0 | 236 | 5.6 | " | " | " |
| 25, Waterside | " 11 | 245 | 23 | 0.4 | 0.0 | 0.0 | 224 | 5.6 | " | " | " |
| Gathering Ground | " 18 | 350 | 23 | 0.4 | 0.0 | 0.0 | 228 | 5.6 | " | " | " |
| 40, Albert Street.... | " 25 | 355 | 24 | 0.4 | 0.0 | 0.0 | 228 | 5.6 | " | " | " |
| Gathering Ground | April 2 | 350 | 23 | 0.5 | 0.0 | 0.0 | 228 | 5.6 | " | " | " |
| 13, Mote Road..... | " 8 | 355 | 23 | 0.4 | 0.0 | 0.0 | 228 | 5.6 | " | " | " |
| Gathering Ground | " 15 | 360 | 24 | 0.5 | 0.0 | 0.0 | 228 | 5.6 | " | " | " |
| 16, Gabriel's Hill .. | " 22 | 350 | 24 | 0.7 | 0.0 | 0.0 | 224 | 5.6 | " | " | " |
| Gathering Ground | " 29 | 360 | 23 | 0.5 | 0.0 | 0.0 | 228 | 5.6 | " | " | " |
| 38, Sandling Road.. | May 6 | 345 | 24 | 0.6 | 0.0 | 0.0 | 224 | 5.6 | " | " | " |
| Gathering Ground | " 13 | 345 | 24 | 0.4 | 0.0 | 0.0 | 224 | 5.6 | " | " | " |
| 21, Hope Street | " 21 | 330 | 24 | 0.5 | 0.0 | 0.0 | 222 | 5.6 | " | " | " |
| Gathering Ground | " 27 | 345 | 24 | 0.4 | 0.0 | 0.0 | 224 | 5.6 | " | " | " |
| 4, Perryfield Street | June 3 | 345 | 24 | 0.6 | 0.0 | 0.0 | 224 | 5.6 | " | " | " |
| Gathering Ground | " 10 | 345 | 24 | 0.6 | 0.0 | 0.0 | 224 | 5.6 | " | " | " |
| 6, Len Cottages, | " 17 | 345 | 24 | 0.4 | 0.0 | 0.0 | 224 | 5.6 | " | " | " |
| Bank Street | | | | | | | | | | | |
| Gathering Ground | " 24 | 350 | 23 | 0.6 | 0.0 | 0.0 | 226 | 5.8 | " | " | " |
| 38, Sandling Road.. | July 1 | 350 | 24 | 0.4 | 0.0 | 0.0 | 232 | 6.0 | " | " | " |
| Gathering Ground | " 8 | 345 | 24 | 0.4 | 0.0 | 0.0 | 230 | 5.8 | " | " | " |
| 21, Astley Street.... | " 15 | 350 | 23 | 0.4 | 0.0 | 0.0 | 236 | 5.6 | " | " | " |
| Gathering Ground | " 22 | 350 | 23 | 0.3 | 0.0 | 0.0 | 234 | 5.6 | " | " | " |
| 3, Rose & Crown | " 29 | 355 | 24 | 0.5 | 0.0 | 0.0 | 232 | 5.6 | " | " | " |
| Yard | | | | | | | | | | | |
| Gathering Ground | Aug. 6 | 340 | 24 | 0.3 | 0.0 | 0.0 | 230 | 5.6 | " | " | " |
| Gathering Ground | " 12 | 350 | 22 | 0.4 | 0.0 | 0.0 | 230 | 5.6 | " | " | " |
| Gathering Ground | " 19 | 340 | 24 | 0.4 | 0.0 | 0.0 | 230 | 5.6 | " | " | " |
| 15, Arundel Street .. | " 26 | 350 | 24 | 0.4 | 0.0 | 0.0 | 230 | 5.6 | " | " | " |
| Gathering Ground | Sept. 2 | 350 | 24 | 0.3 | 0.0 | 0.0 | 232 | 5.6 | " | " | " |
| 11, Stacey's Passage | " 9 | 345 | 24 | 0.4 | 0.0 | 0.0 | 230 | 5.6 | " | " | " |
| Gathering Ground | " 16 | 350 | 24 | 0.5 | 0.0 | 0.0 | 234 | 5.6 | " | " | " |
| 25, Medway Street.. | " 23 | 430 | 31 | 0.3 | 0.0 | 0.0 | 274 | 8.8 | " | " | " |
| Gathering Ground | " 30 | 350 | 23 | 0.2 | 0.0 | 0.0 | 236 | 5.4 | " | " | " |
| 1 Undercliffe | Oct. 9 | 440 | 33 | 0.2 | 0.0 | 0.0 | 284 | 8.8 | " | " | " |
| Gathering Ground | " 14 | 350 | 23 | 0.6 | 0.0 | 0.0 | 236 | 5.4 | " | " | " |
| Dairy, Romney Place | " 21 | 350 | 24 | 0.5 | 0.0 | 0.0 | 236 | 5.4 | " | " | " |
| Gathering Ground | " 28 | 345 | 23 | 0.4 | 0.0 | 0.0 | 234 | 5.4 | " | " | " |
| 40, Albert Street.... | Nov. 4 | 355 | 24 | 0.4 | 0.0 | 0.0 | 232 | 5.4 | " | " | " |
| Gathering Ground | " 11 | 340 | 24 | 0.4 | 0.0 | 0.0 | 230 | 5.4 | slightly turbid | " | " |
| 24, Albert Street.... | " 18 | 350 | 23 | 0.7 | 0.0 | 0.0 | 228 | 5.4 | clear | " | " |
| Gathering Ground | " 25 | 340 | 23 | 0.5 | 0.0 | 0.0 | 228 | 5.4 | " | " | " |
| 71, Boxley Road | Dec. 2 | 355 | 24 | 0.6 | 0.0 | 0.0 | 236 | 5.6 | " | " | " |
| Gathering Ground | " 9 | 360 | 23 | 0.5 | 0.0 | 0.0 | 236 | 5.6 | " | " | " |
| 4, Mote Road | " 16 | 440 | 30 | 0.3 | 0.0 | 0.0 | 292 | 9.0 | " | " | " |
| Gathering Ground | " 23 | 355 | 24 | 0.3 | 0.0 | 0.0 | 234 | 5.6 | " | " | " |
| 71, Mote Road | " 30 | 350 | 24 | 0.6 | 0.0 | 0.0 | 232 | 5.6 | " | " | " |
| Mean results for 1929. | 52 samples | 354 | 24 | 0.5 | 0.0 | 0.0 | 229 | 5.8 | clear | none | none |

All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

TABLE V.—Cossington Water Supply.

| Source of Sample. | Date of Collection. | Total Solids. | Chlorine. | Nitrogen as Nitrates. | Ammonia. | | Hardness. | | Colour and appearance in 2-ft. tube. | Smell. | Phosphoric Acid. |
|-----------------------|---------------------|---------------|-----------|-----------------------|----------|-------------|-----------|-------|--------------------------------------|--------|------------------|
| | | | | | Free. | Albuminoid. | Total. | Perm. | | | |
| Gathering Grounds | 1929. | | | | | | | | | | |
| | Jan. 14 | 330 | 12.3 | 0.3 | 100 | 100 | 226 | 53 | clear | none | none |
| | " 28 | 330 | 12.1 | 0.2 | 100 | 100 | 220 | 51 | " | " | " |
| | Feb. 11 | 330 | 12.1 | 0.2 | 100 | 100 | 220 | 51 | " | " | " |
| | " 25 | 330 | 12.2 | 0.3 | 100 | 100 | 216 | 52 | " | " | " |
| | Mar. 11 | 330 | 12.3 | 0.3 | 100 | 100 | 216 | 53 | " | " | " |
| | " 25 | 330 | 12.3 | 0.3 | 100 | 100 | 216 | 53 | " | " | " |
| | April 8 | 325 | 12.2 | 0.3 | 100 | 100 | 216 | 53 | " | " | " |
| | " 19 | 325 | 12.2 | 0.4 | 100 | 100 | 216 | 53 | " | " | " |
| | May 6 | 320 | 12.2 | 0.4 | 100 | 100 | 214 | 53 | " | " | " |
| | " 21 | 320 | 12.1 | 0.4 | 100 | 100 | 214 | 53 | " | " | " |
| | June 3 | 320 | 12.1 | 0.1 | 100 | 100 | 212 | 52 | " | " | " |
| | " 17 | 330 | 12.1 | 0.2 | 100 | 100 | 216 | 52 | " | " | " |
| | July 1 | 320 | 12.2 | 0.2 | 100 | 100 | 213 | 48 | " | " | " |
| | " 15 | 310 | 12.1 | 0.3 | 100 | 100 | 216 | 52 | " | " | " |
| | " 29 | 265 | 12.2 | 0.3 | 100 | 100 | 184 | 54 | " | " | " |
| | Aug. 12 | 325 | 12.3 | 0.1 | 100 | 100 | 216 | 52 | " | " | " |
| | " 26 | 310 | 12.1 | 0.3 | 102 | 100 | 216 | 53 | " | " | " |
| | Sept. 9 | 270 | 12.1 | 0.3 | 100 | 100 | 180 | 52 | " | " | " |
| | " 23 | 300 | 12.2 | 0.3 | 100 | 100 | 180 | 48 | slightly turbid | " | " |
| | Oct. 9 | 315 | 12.4 | 0.2 | 100 | 100 | 180 | 48 | clear | " | " |
| | " 21 | 330 | 12.2 | 0.3 | 100 | 100 | 210 | 52 | " | " | " |
| | Nov. 4 | 340 | 12.1 | 0.3 | 100 | 100 | 228 | 53 | " | " | " |
| | " 18 | 330 | 12.1 | 0.4 | 100 | 100 | 220 | 52 | " | " | " |
| | Dec. 2 | 320 | 12.2 | 0.3 | 100 | 100 | 216 | 50 | " | " | " |
| | " 16 | 320 | 12.2 | 0.2 | 100 | 100 | 216 | 50 | " | " | " |
| | " 30 | 325 | 12.2 | 0.4 | 100 | 100 | 218 | 50 | " | " | " |
| Mean results for 1929 | 26 Samples | 319 | 22 | 0.3 | 100 | 100 | 211 | 51 | clear | none | none |

TABLE VI.—Forstal Water Supply.

| Source of Sample. | Date of Collection. | Total Solids. | Chlorine. | Nitrogen as Nitrates. | Ammonia. | | Hardness. | | Colour and appearance in 2-ft. tube. | Smell. | Phosphoric Acid. |
|-----------------------|---------------------|---------------|-----------|-----------------------|----------|-------------|-----------|-------|--------------------------------------|--------|------------------|
| | | | | | Free. | Albuminoid. | Total. | Perm. | | | |
| Pumping Station | 1929. | | | | | | | | | | |
| | Jan. 7 | 565 | 39 | 0.2 | 100 | 100 | 352 | 122 | clear | none | none |
| | " 21 | 580 | 38 | 0.3 | 100 | 100 | 356 | 122 | " | " | " |
| | Feb. 4 | 555 | 39 | 0.2 | 100 | 100 | 348 | 130 | " | " | " |
| | " 18 | 565 | 39 | 0.4 | 100 | 100 | 350 | 130 | " | " | " |
| | Mar. 4 | 580 | 40 | 0.3 | 101 | 100 | 354 | 130 | " | " | " |
| | " 18 | 570 | 38 | 0.3 | 100 | 100 | 354 | 130 | " | " | " |
| | Apr. 2 | 565 | 37 | 0.3 | 100 | 100 | 356 | 130 | " | " | " |
| | " 15 | 570 | 38 | 0.2 | 100 | 100 | 356 | 130 | " | " | " |
| | " 29 | 580 | 39 | 0.3 | 100 | 100 | 358 | 130 | " | " | " |
| | May 13 | 565 | 39 | 0.2 | 100 | 100 | 356 | 130 | " | " | " |
| | " 27 | 550 | 39 | 0.2 | 100 | 100 | 352 | 130 | " | " | " |
| | June 10 | 560 | 40 | 0.5 | 100 | 100 | 356 | 130 | " | " | " |
| | " 24 | 580 | 39 | 0.3 | 100 | 100 | 360 | 132 | " | " | " |
| | July 8 | 540 | 39 | 0.2 | 100 | 100 | 356 | 130 | " | " | " |
| | " 22 | 565 | 40 | 0.2 | 100 | 100 | 360 | 130 | " | " | " |
| | Aug. 6 | 565 | 39 | 0.3 | 100 | 100 | 360 | 130 | " | " | " |
| | " 19 | 550 | 39 | 0.3 | 100 | 100 | 360 | 130 | " | " | " |
| | Sept. 2 | 575 | 40 | 0.2 | 101 | 106 | 364 | 132 | " | " | " |
| | " 16 | 560 | 40 | 0.3 | 100 | 100 | 360 | 130 | " | " | " |
| | " 30 | 570 | 40 | 0.1 | 100 | 100 | 364 | 132 | " | " | " |
| | Oct. 11 | 570 | 39 | 0.1 | 100 | 100 | 364 | 130 | " | " | " |
| | " 28 | 575 | 39 | 0.3 | 100 | 106 | 366 | 130 | " | " | " |
| | Nov. 11 | 565 | 38 | 0.3 | 100 | 100 | 360 | 130 | slightly turbid | " | " |
| | " 25 | 575 | 40 | 0.2 | 100 | 100 | 364 | 130 | clear | " | " |
| | Dec. 9 | 565 | 39 | 0.3 | 100 | 100 | 360 | 130 | " | " | " |
| | " 23 | 555 | 40 | 0.2 | 100 | 100 | 360 | 130 | " | " | " |
| Mean results for 1929 | 26 Samples | 567 | 39 | 0.3 | 100 | 100 | 358 | 130 | clear | none | none |

All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

TABLE VII.—Cossington and Forstal (Mixed Water Supply).

| Source of Sample. | Date of Collection. | Total Solids. | Chlorine. | Nitrogen as Nitrates. | Ammonia. | | Hardness. | | Colour and appearance in 2-ft. tube. | Smell. | Phosphoric Acid. |
|---------------------------------|---------------------|---------------|-----------|-----------------------|----------|-------------|-----------|-------|--------------------------------------|--------|------------------|
| | | | | | Free. | Albuminoid. | Total. | Perm. | | | |
| 1929. | | | | | | | | | | | |
| 29, Brunswick St. . . | Jan. 7 | 490 | 33 | 0.2 | 700 | 700 | 32.4 | 10.0 | clear | none | none |
| 21, Malling Terrace . . | " 11 | 500 | 32 | 0.3 | 700 | 700 | 32.2 | 10.0 | " | " | " |
| 81, King Edward Rd . . | " 21 | 480 | 32 | 0.3 | 700 | 700 | 32.0 | 9.8 | " | " | " |
| Sanatorium, Fant Lane . . | " 28 | 460 | 34 | 0.4 | 700 | 700 | 30.4 | 10.4 | " | " | " |
| 13, Tonbridge Road . . | Feb. 4 | 455 | 34 | 0.1 | 700 | 700 | 30.4 | 10.4 | " | " | " |
| 231, Boxley Road . . | " 11 | 530 | 37 | 0.3 | 700 | 700 | 32.8 | 10.8 | " | " | " |
| 7, St. George's Sq. . . | " 18 | 425 | 30 | 0.4 | 700 | 700 | 27.2 | 6.8 | " | " | " |
| 13, Marham Street . . | " 25 | 430 | 30 | 0.3 | 700 | 700 | 26.4 | 6.8 | " | " | " |
| 23, Thornhill Place . . | Mar. 1 | 480 | 32 | 0.3 | 700 | 700 | 31.4 | 10.4 | " | " | " |
| 31, King Edward Rd. . . | " 18 | 500 | 33 | 0.3 | 700 | 700 | 31.8 | 10.6 | " | " | " |
| 29, Thornhill Place . . | " 25 | 465 | 34 | 0.3 | 700 | 700 | 28.8 | 9.6 | " | " | " |
| 12a, St. Peter Street . . | April 2 | 440 | 30 | 0.3 | 700 | 700 | 27.6 | 9.4 | " | " | " |
| Sanatorium, Fant Lane . . | " 8 | 465 | 32 | 0.3 | 700 | 700 | 29.2 | 10.2 | " | " | " |
| 13, Tonbridge Road . . | " 15 | 475 | 34 | 0.3 | 700 | 700 | 29.4 | 10.2 | " | " | " |
| 40, Thornhill Place . . | " 22 | 460 | 34 | 0.2 | 700 | 700 | 28.0 | 9.8 | " | " | " |
| 275, Upper Fant Rd. . . | " 29 | 480 | 34 | 0.4 | 700 | 700 | 29.4 | 10.2 | " | " | " |
| 203, Queen's Road . . | May 6 | 470 | 32 | 0.5 | 700 | 700 | 29.0 | 10.0 | " | " | " |
| 5, Cross Street | " 13 | 460 | 34 | 0.2 | 700 | 700 | 28.8 | 10.0 | " | " | " |
| 8, St. Peter Street . . | " 21 | 445 | 34 | 0.4 | 700 | 700 | 28.4 | 9.8 | " | " | " |
| 10, Hastings Road . . | " 27 | 450 | 34 | 0.4 | 700 | 700 | 28.4 | 9.8 | " | " | " |
| 15, Malling Terrace . . | June 3 | 490 | 34 | 0.5 | 700 | 700 | 32.0 | 10.2 | " | " | " |
| 13, Tonbridge Road . . | " 10 | 470 | 32 | 0.5 | 700 | 700 | 29.0 | 10.0 | " | " | " |
| 27, Woodside Road . . | " 17 | 465 | 34 | 0.3 | 700 | 700 | 28.8 | 10.0 | " | " | " |
| 54, Hackney Road . . | " 24 | 505 | 35 | 0.2 | 700 | 700 | 32.0 | 10.2 | " | " | " |
| 1, Coombe Road | July 1 | 505 | 35 | 0.2 | 700 | 700 | 29.2 | 10.6 | " | " | " |
| Sanatorium, Fant Lane . . | " 8 | 490 | 35 | 0.2 | 700 | 700 | 32.0 | 10.0 | " | " | " |
| 63, Wheeler Street . . | " 15 | 460 | 33 | 0.3 | 700 | 700 | 28.4 | 10.2 | " | " | " |
| 6, Camden Street . . | " 22 | 445 | 30 | 0.1 | 701 | 700 | 27.6 | 10.2 | " | " | " |
| All Saints' School . . | " 29 | 365 | 23 | 0.1 | 700 | 700 | 23.6 | 5.8 | " | " | " |
| 75, Plains Avenue . . | " 29 | 450 | 34 | 0.3 | 700 | 700 | 28.8 | 9.6 | " | " | " |
| 13, Foley Street | Aug. 6 | 480 | 34 | 0.3 | 700 | 700 | 29.6 | 9.8 | slightly turbid | " | " |
| Osborne House, Loose Road . . | " 12 | 370 | 28 | 0.4 | 700 | 700 | 26.8 | 9.6 | clear | " | " |
| 39, Fant Lane | " 19 | 480 | 35 | 0.3 | 700 | 700 | 30.4 | 11.2 | " | " | " |
| 11, Cross Street | " 26 | 465 | 32 | 0.3 | 701 | 700 | 28.4 | 9.6 | " | " | " |
| 81, King Edward Rd. . . | Sept. 2 | 480 | 32 | 0.3 | 700 | 700 | 30.4 | 11.4 | turbid - depositing iron | " | " |
| 31, Dover Street | " 9 | 440 | 32 | 0.4 | 700 | 700 | 28.8 | 9.6 | clear | " | " |
| 94, Salisbury Road . . | " 16 | 510 | 36 | 0.3 | 700 | 700 | 32.0 | 12.0 | slightly turbid | " | " |
| 13, Tonbridge Road . . | " 23 | 460 | 34 | 0.4 | 700 | 701 | 28.8 | 8.8 | clear | " | " |
| 13, St. Peter Street . . | " 30 | 430 | 33 | 0.4 | 700 | 700 | 28.8 | 9.0 | slightly turbid | " | " |
| 2, Hope Cotts., London Road . . | Oct. 9 | 460 | 33 | 0.2 | 700 | 700 | 29.6 | 9.0 | clear | " | " |
| 84, Bower Street | " 14 | 505 | 34 | 0.4 | 700 | 700 | 32.0 | 11.4 | " | " | " |
| 102, Wheeler Street . . | " 21 | 490 | 32 | 0.3 | 700 | 700 | 30.4 | 9.2 | " | " | " |
| 10, Canning Street . . | " 28 | 470 | 33 | 0.3 | 700 | 700 | 29.4 | 9.2 | " | " | " |
| 81, King Edward Rd. . . | Nov. 1 | 515 | 34 | 0.3 | 700 | 700 | 29.6 | 9.2 | " | " | " |
| 13, Tonbridge Road . . | " 11 | 495 | 33 | 0.4 | 700 | 704 | 29.4 | 9.0 | slightly turbid | " | " |
| 13, Tonbridge Road . . | " 18 | 475 | 34 | 0.5 | 700 | 700 | 26.2 | 8.0 | clear | " | " |
| 16, Hart Street | " 25 | 495 | 33 | 0.2 | 700 | 700 | 29.4 | 9.0 | " | " | " |
| 6, Coombe Road | Dec. 2 | 485 | 34 | 0.3 | 700 | 700 | 31.6 | 9.4 | slightly turbid | " | " |
| 16, St. Peter Street . . | " 9 | 440 | 30 | 0.3 | 700 | 700 | 29.0 | 8.8 | clear | " | " |
| Brown Jug, George Street . . | " 16 | 440 | 30 | 0.3 | 700 | 700 | 29.2 | 9.0 | " | " | " |
| 7, Well Road | " 23 | 445 | 32 | 0.2 | 700 | 700 | 29.4 | 9.0 | " | " | " |
| 57, Greenway | " 30 | 450 | 30 | 0.4 | 700 | 700 | 29.6 | 9.0 | " | " | " |
| Mean results for 1929 | 52 samples | 467 | 32 | 0.3 | 700 | 700 | 29.6 | 9.3 | clear | none | none |

All results are given in parts per hundred thousand except Free and Albuminoid Ammonia, which are in parts per million.

METEOROLOGY.

The detail of meteorological observations is set forth in Table VIII.

The mean reading of the barometer for the year is 29·83, the highest monthly mean being for March 30·20, and the lowest for December 29·57.

The hottest month was July, giving a mean of the maximum readings of the thermometer in the shade of 73°, and the mean of minimum readings of 52°, while the coldest month was February, with a mean of maximum readings of 36° and a mean of minimum readings of 25°.

The prevailing winds were S.W., there being 96 days on which the wind was in this quarter.

The total rain-fall for the year was 24·98 inches, the heaviest amount falling in November, viz., 5·98 inches, while during March the amount registered was only ·08 inches, this being the driest month of the year.

There were 142 days in the year on which ·01 of an inch or more rain fell.

TABLE VIII.—Record of Meteorology, 1928.
Relative Proportion of Wind.
(Taken Daily at 9 a.m.)

| MONTH. | RELATIVE PROPORTION OF WIND. | | | | | | | |
|---------------|------------------------------|------|------|----|------|------|-----|-----|
| | N. | N.E. | N.W. | S. | S.E. | S.W. | E. | W. |
| January ... | 5 | 4 | 6 | 2 | 5 | 4 | 2 | 3 |
| February ... | ... | 7 | 1 | 2 | 10 | 2 | 6 | ... |
| March ... | 2 | 12 | 5 | 1 | 2 | 2 | 4 | 3 |
| April ... | 3 | 10 | 7 | 1 | ... | 5 | ... | 4 |
| May ... | 4 | 5 | 6 | 5 | 2 | 7 | 1 | 1 |
| June ... | 1 | 2 | 2 | 3 | 1 | 10 | 1 | 10 |
| July ... | 3 | 5 | 2 | 3 | ... | 11 | ... | 7 |
| August ... | 2 | ... | 2 | 6 | ... | 17 | ... | 4 |
| September ... | ... | 2 | 4 | 4 | 5 | 7 | 2 | 6 |
| October ... | 1 | ... | 4 | 1 | 1 | 14 | 1 | 9 |
| November ... | 2 | 1 | 2 | 9 | 5 | 6 | 1 | 4 |
| December ... | ... | .. | 1 | 4 | 4 | 11 | 2 | 9 |
| Total ... | 23 | 48 | 42 | 41 | 35 | 96 | 20 | 60 |

| MONTH. | Average Barometer. | Average Max. Thermometer. | Average Min. Thermometer. | RAINFALL. | N ^o . OF DAYS ON WHICH .01 OR MORE RAIN FELL. |
|---------------------------------|-----------------------|------------------------------|------------------------------|-----------|--|
| January ... | 30.17 | 36 | 29 | 1.11 | 17 |
| February ... | 30.02 | 36 | 25 | .82 | 10 |
| March ... | 30.20 | 51 | 31 | .08 | 4 |
| April ... | 29.79 | 52 | 35 | 1.43 | 13 |
| May ... | 29.75 | 65 | 44 | 1.20 | 9 |
| June ... | 29.77 | 68 | 49 | 1.10 | 11 |
| July ... | 29.71 | 73 | 52 | 1.11 | 8 |
| August ... | 29.69 | 72 | 53 | 1.93 | 8 |
| September ... | 29.81 | 72 | 52 | 1.00 | 5 |
| October ... | 29.67 | 56 | 35 | 3.61 | 14 |
| November ... | 29.77 | 49 | 36 | 5.98 | 17 |
| December ... | 29.57 | 47 | 35 | 5.61 | 26 |
| Averages and Totals for Year | 29.83 | 56 | 39 | 24.98 | 142 |

BOROUGH OF MAIDSTONE, 1929.

GENERAL SUMMARY.

| | | |
|---|----------------------|-----------------------|
| Population (estimated 1929)—For Birth Rate ... | ... | 40,730 |
| For Death Rate... | ... | 40,550 |
| Number of Inhabited Houses (1921) ... | ... | 8,172 |
| Average Number of Persons per House (1921) ... | ... | 4·6 |
| Area... { East Maidstone, 2,019 acres } { West ,, 1,989 ,, } | ... | 4,008 acres |
| Density ... | ... | 10·2 persons per acre |
| Annual Birth Rate ... | per 1,000 population | 15·9 |
| Annual Death Rate ... | ,, | 12·6 |
| Phthisis Death Rate ... | ,, | ·81 |
| Other Tubercular Diseases Death Rate | ,, | ·2 |
| Infantile Death Rate per 1,000 Births ... | ... | 49·5 |
| Births ... { Males, 326 } { Females, 321 } | ... | 647 |
| Deaths ... { Males, 252 } { Females, 247 } | ... | 499 |
| Excess of Births over Deaths ... | ... | 148 |

Elevation.—The population reside at a mean elevation of 70 feet above sea level, ranging from 20 to 250 feet.

